

WHAT IS CLAIMED IS:

1. A motor drive apparatus comprising:

a motor current detecting section which detects a motor current when a movable member driven by a motor is moved;

5 a lock current judging section which monitors the motor current detected by the motor current detecting section to make a judgment on a lock current that is to flow when motion of the movable member is set to a locked state;

10 a switch operation invalidation setting section which, when a judgment that the motor current when the movable member is moved is the lock current is made, invalidates a switch operation in a movement direction of the movable member at a timing of the judgment; and

15 a switch operation invalidation setting canceling section which, when a switch operation of moving the movable member in an opposite direction is conducted under a state where invalidation of a switch operation is set by the switch operation invalidation setting section, cancels the setting of switch operation invalidation by the switch  
20 operation invalidation setting section.

2. A motor drive apparatus comprising:

a motor current detecting section which detects a motor current when a movable member driven by a motor is moved;

a lock current judging section which monitors the motor current detected by the motor current detecting section to make a judgment on a lock current that is to flow when motion of the movable member is set to a locked state;

5        a switch operation invalidation setting section which, when a judgment that the motor current when the movable member is moved is the lock current is made, invalidates a switch operation of a movement direction of the movable member at a timing of the judgment, only for a predetermined  
10    period ; and

      a switch operation invalidation setting canceling section which, when a switch operation of moving the movable member in an opposite direction is conducted under a state where invalidation of a switch operation is set by the  
15    switch operation invalidation setting section, cancels the setting of switch operation invalidation by the switch operation invalidation setting section.

3.    A method of controlling an operation on a movable  
20    member driven by a motor, the method comprising the steps of:

      invalidating, when a motor current in a case where the movable member is moved reaches a lock current that is to flow when motion of the movable member is set to a locked

state, a switch operation in a direction of moving the  
movable member at this timing; and

canceling the switch operation invalidation setting  
state by conducting a switch operation of moving the movable  
5 member in an opposite direction under a state where the  
switch operation is invalidated.

4. A method of controlling an operation on a movable  
member driven by a motor, the method comprising the steps  
10 of:

invalidating, when a motor current in a case where the  
movable member is moved reaches a lock current that is to  
flow when motion of the movable member is set to a locked  
state, a switch operation in a direction of moving the  
15 movable member at this timing only for a predetermined  
period;

canceling the switch operation invalidation setting  
state by conducting a switch operation of moving the movable  
member in an opposite direction during the predetermined  
20 period of invalidating a switch operation; and

invalidating again, when the motor current corresponds  
to the lock current even at a timing when the predetermined  
period elapses, a switch operation in the same direction  
only for the predetermined period.